FOR QUALITY & EXCELLENCE IN HIGHER EDUCATION
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BANGALORE UNIVERSITY
DEPARTMENT OF CIVIL ENGINEERING

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JNANA BHARATHI
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BUB/CTE/2015-16/

Date: 06-07-2015

TEST REPORT ON WET MIX MACADAM MIX
(GRADATION TEST)

Sub: To conduct Gradation test on Wet Mix Macadam (WMM) Mix.
{Project*: Construction concrete roads and asphalt in Thindlu Village in Ward No. 09 Vidyaranyapura Sub Division .}

Ref.: Letter No. AEE/BBMP/VSD/PR/345/2015-16, dated 04-07-2015

Sample supplied to lab by : Assistant Executive Engineer
Vidyaranyanapura Sub-Division
BBMP, Bangalore.

Name of the Contractor/ Agency*: Sri B.Chandrashekar,contractor Bangalore.

TEST RESULTS

1. Gradation Test:

TABLE 1.1

Sieve Size mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Specified Limits as per MoRTH Specifications, IV Revision-2001
53	100.00	100
45	96.90	95-100
26.5	---	-
22.4	73.10	60-80
11.2	55.00	40-60
4.750	35.45	25-40
2.360	18.20	15-30
0.600	13.60	8--22
0.075	2.75	0--8

*As Furnished by Client.

The Results relate only to the items tested.

DEPARTMENT OF CIVIL ENGINEERING BANGALORE

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Date: 06-07-2015

TABLE 12 :

SL No	Test conducted	Sample No	Results	**Requirements** as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	**22.60%**	Not more than 30 %
2	Impact Value	----,,----	**26.30%**	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM

*As Furnished by Client

The Results relate only to the items tested.

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BUB/CTE/2015-16/ **DATE: 12-07-2015**

1. TEST REPORT ON CEMENT CONCRETE CUBES :

Sub: Testing of Concrete Cubes (07days Compressive Strength)
{Project*: Construction concrete roads and asphalt in Thindlu Village in Ward No. 09 Vidyaranyapura Sub Division .}

Ref.: Letter No. AEE/BBMP/VSD/PR/345/2015-16 dated 11-07-2015

Sample supplied to lab by : Assistant Executive Engineer
Vidyaranyanapura Sub-Division
BBMP, Bangalore.

Name of the Contractor/ Agency*: Sri B.Chandrashekar,contractor Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1 :

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in Mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	04-07-15	11-07-15	07	22500	370	16.44	**16.14**
	002	"	"	"	"	355	15.77	
	003	"	"	"	"	365	16.22	

*As Furnished by Client.

The Results relate only to the items tested.

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BUB/CTE/2015-16/

Date: 10-07-2015

1.TEST REPORT ON BITUMINOUS MIXES :
(BITUMEN EXTRACTION TEST & GRADATION TEST)

{Project*: Construction concrete roads and asphalt in Thindlu Village in Ward No. 09 Vidyaranyapura Sub Division .}

Ref.: Letter No. AEE/BBMP/VSD/PR/345/2015-16, dated 08-07-2015

Sample supplied to lab by : Assistant Executive Engineer
Vidyaranyanapura Sub-Division
BBMP, Bangalore.

Name of the Contractor/ Agency*: Sri B.Chandrashekar,contractor Bangalore.

TEST RESULTS

A. Type of Construction: **Bituminous Concrete(40mm thick), Gr-II.**

1.The bitumen content obtained after subjecting the sample for Bitumen Extraction test = **5.46 %**

2. Gradation Test

TABLE 1.1

Sieve Size, mm	Percent by Weight passing the Sieve from the sample supplied (Obtained Gradation)	Gradation requirement as per Table 500-18 of MORTH Specfications-2001 BC (Grading – 2)
19.0	100.00	100
13.2	94.10	79-100
9.5	80.90	70-88
4.75	62.50	53-71
2.36	49.60	42-58
1.18	40.30	34-48
0.600	31.00	26-38
0.300	23.60	18-28
0.150	15.70	12-20
0.075	5.10	4-10

*As Furnished by Client.

The Results relate only to the items tested.

DEPARTMENT OF CIVIL ENGINEERING BANGALORE

10/7/2015

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DEPARTMENT OF CIVIL ENGINEERING

Date: 10-07-2015

TABLE 12 :

SL No	Test conducted	Sample No	Results	**Requirements** as per IS:383-1970 & Test Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2007)
1	Flakiness & Elongation Index	01	**23.60%**	Not more than 30 %
2	Impact Value	----,,----	**25.40 %**	Not more then 24.00 % for BC Not more then 27.00 % for DBM Not more then 30.00 % for BM/WMM
3	Water absorption	----,,----	**0.36 %**	Not more than 1.0 %
4	Stripping test. (Coating and stripping of Bitumen aggregate mixtures)	----,,----	**97.10 %**	Minimum retained coating 95.0 **%**

*As Furnished by Client

The Results relate only to the items tested.

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